

**In the Claims**

The claims have been amended as follows:

1 Claim 1-7 (cancel)

1 Claim 8 (Previously Presented) A sheet comprising carbonized fibrillated lyocell fibers  
2 and a microbiological interception enhancing agent on a portion of selected ones of said  
3 carbonized fibrillated lyocell fibers, said carbonized fibrillated lyocell fibers having a Canadian  
4 Standard Freeness of less than about 100 and a fiber diameter of less than or equal to about  
5 400nm, said sheet carbonized at a temperature of less than about 600°C.

1 Claim 9 (original) A sheet of claim 8 wherein said sheet is further heated to form an  
2 activated carbon sheet having a BET surface area of greater than about 800 m<sup>2</sup>/g.

1 Claim 10 (withdrawn) A sheet of claim 8 wherein the fibrillated fibers have a Canadian  
2 Standard Freeness of less than about 45 or a fiber diameter of less than about 250nm.

1 Claim 11 (withdrawn) A sheet of claim 8 wherein the fibrillated fibers have a Canadian  
2 Standard Freeness of less than about 0 or a fiber diameter of less than about 250nm.

1 Claim 12 (cancel)

1 Claim 13 (cancel)

1 Claim 14 (withdrawn) A sheet of claim 8 further including active agents captured therein.

1 Claim 15 (withdrawn) A sheet of claim 14 wherein the active agents comprise metals, metal  
2 salts, metal oxides, glass, alumina, carbon, activated carbon, silicates, ceramics, zeolites,  
3 diatomaceous earth, activated bauxite, fuller's earth, calcium sulfate, titanium dioxide,  
4 magnesium hydroxide, manganese oxides, magnesia, perlite, talc, clay, bone char, pitch,  
5 calcium hydroxide, calcium salts, or combinations thereof.

1 Claim 16 (cancel)

1 Claim 17 (withdrawn) A sheet of claim 8 wherein the fibrillated fibers are admixed with active  
2 agents, and made into a paper prior to carbonization.

1 Claim 18 (withdrawn) A sheet of claim 8 wherein said sheet is used as an electrode.

1 Claim 19 (withdrawn) A sheet of claim 8 further including a catalyst or a catalyst support.

1 Claim 20 (original) A filter medium comprising the sheet of claim 8.

1 Claim 21 (Currently Amended) A sheet comprising activated, carbonized fibrillated  
2 lyocell fibers and a microbiological interception enhancing agent on a portion of selected ones  
3 of said fibrillated lyocell fibers, said microbiological interception enhancing agent comprising a  
4 biologically active metal precipitated with a counter ion of a cationic material that is adsorbed  
5 on said portion of said selected ones of said fibrillated lyocell fibers, said fibrillated lyocell  
6 fibers having a BET surface area of greater than about 800m<sup>2</sup>/g, wherein prior to carbonization  
7 and activation, the fibrillated fibers have a Canadian Standard Freeness of less than about 100  
8 or a fiber diameter of less than or equal to about 400nm and wherein activation occurs in less  
9 than or equal to about 30 minutes at a temperature greater than about 875°C in an oxidizing  
10 atmosphere.

1 Claim 22 (withdrawn) A sheet of claim 21 wherein the fibrillated fibers have a Canadian  
2 Standard Freeness of less than about 45 or a fiber diameter of less than about 250nm.

1 Claim 23 (withdrawn) A sheet of claim 21 wherein the fibrillated fibers have a Canadian  
2 Standard Freeness of less than about 0 or a fiber diameter of less than about 250nm.

1 Claim 24 (withdrawn) A sheet of claim 21 wherein the fibrillated fibers comprise polymers,  
2 liquid crystal polymers, engineered resins, cellulose, rayon, ramie, wool, silk, or combinations  
3 thereof.

1 Claim 25 (cancel)

1 Claim 26 (withdrawn) A sheet of claim 21 further including active agents captured  
2 therein.

1 Claim 27 (withdrawn) A sheet of claim 26 wherein the active agents comprise metals, metal  
2 salts, metal oxides, glass, alumina, carbon, activated carbon, silicates, ceramics, zeolites,  
3 diatomaceous earth, activated bauxite, fuller's earth, calcium sulfate, titanium dioxide,  
4 magnesium hydroxide, manganese oxides, magnesia, perlite, talc, clay, bone char, pitch,  
5 calcium hydroxide, calcium salts, or combinations thereof.

1 Claim 28 (withdrawn) A sheet of claim 21 wherein the fibrillated fibers are admixed with active  
2 agents, and made into a paper prior to carbonization and activation.

1 Claim 29 (withdrawn) A sheet of claim 21 further including a catalyst or a catalyst support.

1 Claim 30 (cancel)

1 Claim 31 (withdrawn) A filter medium comprising the sheet of claim 21.

1 Claim 32 (withdrawn) A sheet comprising carbonized fibrillated fibers and a  
2 microbiological interception enhancing agent on a portion of selected ones of said fibrillated  
3 fibers, said fibrillated fibers having a Canadian Standard Freeness of less than about 45 or a  
4 fiber diameter of less than or equal to about 250nm, and active agents captured within said

5 carbon sheet, said active agents present in an amount greater than about 10 weight percent  
6 of a total weight of said sheet.

1 Claim 33 (withdrawn) A sheet of claim 32 wherein the active agents comprise metals,  
2 metal salts, metal oxides, glass, alumina, carbon, activated carbon, silicates, ceramics, zeolites,  
3 diatomaceous earth, activated bauxite, fuller's earth, calcium sulfate, titanium dioxide,  
4 magnesium hydroxide, manganese oxides, magnesia, perlite, talc, clay, bone char, pitch,  
5 calcium hydroxide, calcium salts, or combinations thereof.

1 Claim 34 (withdrawn) A sheet of claim 32 wherein said active agents are present in an  
2 amount of greater than 50 weight percent.

1 Claim 35 (withdrawn) A sheet of claim 32 wherein said active agents have a particle size  
2 of less than about 50  $\mu\text{m}$  and are present in an amount of greater than 97 weight percent.

1 Claim 36 (withdrawn) A sheet of claim 32 wherein said sheet is used as an electrode.

1 Claim 37 (withdrawn) A sheet of claim 32 further including a catalyst or a catalyst  
2 support incorporated therein.

1 Claim 38 (cancel)

1 Claim 39 (withdrawn) A filter medium comprising the sheet of claim 32.

1 Claim 40 (withdrawn) A sheet comprising activated, carbonized fibrillated fibers and a  
2 microbiological interception enhancing agent on a portion of selected ones of said fibrillated  
3 fibers, wherein the fibrillated fibers have a Canadian Standard Freeness of less than about 45, a  
4 diameter of less than or equal to about 250nm, and active agents captured therein, wherein the  
5 active agents are present in an amount greater than about 10 weight percent of a total weight of  
6 said sheet.

1 Claim 41 (withdrawn) A sheet of claim 40 wherein the active agents comprise metals,  
2 metal salts, metal oxides, glass, alumina, carbon, activated carbon, silicates, ceramics, zeolites,  
3 diatomaceous earth, activated bauxite, fuller's earth, calcium sulfate, titanium dioxide,  
4 magnesium hydroxide, manganese oxides, magnesia, perlite, talc, clay, bone char, pitch,  
5 calcium hydroxide, calcium salts, or combinations thereof.

1 Claim 42 (withdrawn) A sheet of claim 40 further including a catalyst or a catalyst  
2 support.

1 Claim 43 (cancel)

1 Claim 44 (withdrawn) A filter medium comprising the sheet of claim 40.

1 Claims 45-84 (cancel)

1 Claim 85 (Previously Presented) A sheet comprising activated, carbonized fibrillated  
2 fibers having a microbiological interception enhancing agent on a portion of selected ones of  
3 said fibrillated fibers, said microbiological interception enhancing agent comprising a  
4 biologically active metal precipitated with a counter ion of a cationic material that is adsorbed  
5 on said portion of said selected ones of said fibrillated fibers.

1 Claim 86 (Previously Presented) The sheet of claim 85 wherein said fibrillated fibers have a  
2 Canadian Standard Freeness of less than about 100.

1 Claim 87 (Previously Presented) The sheet of claim 85 wherein said fibrillated fibers have a  
2 Canadian Standard Freeness of less than about 45.

1 Claim 88 (Previously Presented) The sheet of claim 85 wherein said fibrillated fibers have a  
2 Canadian Standard Freeness of less than about 0.

1 Claim 89 (Previously Presented) The sheet of claim 85 wherein said fibrillated fibers have a  
2 fiber diameter of less than about 250nm.

1 Claim 90 (withdrawn) The sheet of claim 85 further including active agents captured  
2 therein.

1 Claim 91 (withdrawn) The sheet of claim 85 further including a catalyst or a catalyst  
2 support.

1 Claim 92 (Previously Presented) The sheet of claim 85 wherein said cationic material is  
2 selected from the group consisting of a colloid, a charged molecule, and a linear or branched  
3 polymer having positively charged atoms along a length of said polymer chain having said  
4 counter ion associated therewith.

1 Claim 93-100 (cancel)

1 Claim 101 (Previously Presented) A sheet comprising activated, carbonized fibrillated  
2 lyocell fibers having a microbiological interception enhancing agent on a portion of selected  
3 ones of said fibrillated fibers, said microbiological interception enhancing agent comprising a  
4 biologically active metal precipitated with a counter ion of a cationic material that is adsorbed  
5 on said portion of said selected ones of said fibrillated fibers.

1 Claim 102 (Previously Presented) The sheet of claim 101 wherein said fibrillated fibers have  
2 a Canadian Standard Freeness of less than about 100.

1 Claim 103 (Previously Presented) The sheet of claim 101 wherein said fibrillated fibers have  
2 a Canadian Standard Freeness of less than about 45.

1 Claim 104 (Previously Presented) The sheet of claim 101 wherein said fibrillated fibers have  
2 a Canadian Standard Freeness of less than about 0.



1 Claim 105 (Previously Presented) The sheet of claim 101 wherein said fibrillated fibers  
2 have a fiber diameter of less than about 250nm.

1 Claim 106 (withdrawn) The sheet of claim 101 further including active agents captured  
2 therein.

1 Claim 107 (withdrawn) The sheet of claim 101 further including a catalyst or a catalyst  
2 support.

1 Claim 108 (Previously Presented) The sheet of claim 101 wherein said cationic material is  
2 selected from the group consisting of a colloid, a charged molecule, and a linear or branched  
3 polymer having positively charged atoms along a length of said polymer chain having said  
4 counter ion associated therewith.